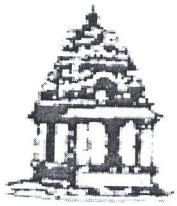

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISION

Name of the work: Improvements to Drains (Concrete Drain) and Comprehensive development of roads from 12th A Cross to 20th R Cross Bhuvaneshwarinagra near Coffe board park ward no. 06 Byatarayanapura Assembly consituency (near Coffe board park)

Est Cost: **Rs. 200.00 Lakhs**

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Improvements to Drains (Concrete Drain) and Comprehensive development of roads from 12th A Cross to 20th R Cross Bhuvaneshwarinagra near Coffe board park ward no. 06 Byatarayanapura Assembly consituency (near Coffe board park)

Estimate Cost Rs. 20000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-51: scarifying bituminous course 50mm to 75mm thick along with premix carpet/surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris within a lead of 100 meters including cost of all labour charges, HOM of machineries complete as per specifications. MORTH chapter 3, No. 146/ Item No. 19.56/ PWD SR 2018-19	Sqm							
	For Road Surface								
	Bhuvaneshwarinagara main Road		1	167.00	6.00		1002.00		
	Bhuvaneshwarinagra 20th R Cross		1	220.00	6.00		1320.00		
	Main Road		1	288.00	6.00		1728.00		
	Cross Roads		1	120.00	6.00		720.00		
	Cross Roads		1	120.00	6.00		720.00		
	Cross Roads		1	120.00	6.00		720.00		
	Cross Roads		1	110.00	6.00		660.00		
	Cross Roads		1	113.00	6.00		678.00		
							7548.00	**41.34**	**312034.00**
	Basic Rate	39.00							
	Area Weightage @ 6%	2.34							
	Total	**41.34**							
2	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	Culverts		6	6.20	2.10	1.20	93.74		
	New RCC Drain								
	Bhuvaneshwarinagra main Road		1	167.00	0.90	0.90	135.27		
	Bhuvaneshwarinagara 20th R Cross		1	220.00	0.90	0.90	178.20		
	Desilting of Drains								
	Main Road		2	288.00	0.45	0.30	77.76		
	Cross Roads		2	120.00	0.45	0.30	32.40		
	Cross Roads		2	120.00	0.45	0.25	27.00		
	Cross Roads		2	120.00	0.45	0.30	32.40		
	Cross Roads		2	110.00	0.45	0.25	24.75		
	Cross Roads		2	113.00	0.45	0.25	25.43		
	For Flaging Course								
	Cross Roads		2X2	120.00	0.25	0.25	30.00		
	Cross Roads		2X2	120.00	0.25	0.30	36.00		
	Cross Roads		2X2	120.00	0.25	0.25	30.00		
			2X2	110.00	0.25	0.30	33.00		
			2X2	113.00	0.25	0.30	33.90		
							789.85	137.80	**108841.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
3	Removing B.S Slab of Drain and stacking Page No. 27/ Item No. 5.32/ PWD SR 2018-19	Sqm							
	Main Road		2	288.00	1.65		950.40		
	Cross Roads		2	120.00	1.65		396.00		
	Cross Roads		2	120.00	1.65		396.00		
	Cross Roads		2	120.00	1.65		396.00		
	Cross Roads		2	110.00	1.65		363.00		
	Cross Roads		2	113.00	1.65		372.90		
							2874.30		
	Deduct 29% Missing Slabs						833.55		
							2040.75	104.94	**214157.00**
	Basic Rate	99.00							214156
	Area Weightage @ 6%	5.94							
	Total	**104.94**							
4	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 27/ Item No. 5.33/ PWD SR 2018-19	Sqm							
			Qty Vide Item No.3				2040.75		
							2040.75	111.30	227136.00
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 27/ Item No. 5.31.1/ PWD SR 2018-19	**Sqm**							
	For Missing slabs (30%)		Missing Slabs				833.55		
							833.55	742.00	**618492.00**
	Basic Rate	700.00							618494
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 13/ Item No. 4.3/ PWD SR 2018-19	**Cum**							
	New RCC Drain		1	167.00	0.90	0.15	23.10		
	New RCC Drain		1	220.00	0.90	0.15	30.43		
	For Flaging Course Drain								
	Cross Roads		2X2	120.00	0.25	0.15	18.00		
	Cross Roads		2X2	120.00	0.25	0.15	18.00		
	Cross Roads		2X2	120.00	0.25	0.15	18.00		
	Cross Roads		2X2	110.00	0.25	0.15	16.50		
	Cross Roads		2X2	113.00	0.25	0.15	16.95		
	For Culverts		6	6.20	2.10	0.15	12.05		
							153.04	5408.12	**827646.00**
	Basic Rate	5102.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2018-19	cum							
	Culverts		6X2	6.20	0.60	0.60	26.78		
							26.78	4871.76	**130485.00**
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	**4871.76**							
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item No. 5.9/ PWD SR 2018-19	**Sqm**							
	Culverts		6X2	6.20	0.45	0.45	15.07	14.2	
							15.07	**5811.98**	87563.00
	Basic Rate	5483.00							87587=00
	Area Weightage @ 6%	328.98							82530.
	Total	**5811.98**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	**Sqm**							
	For RCC Drains		1X4	167.00	0.60		400.80		
	Bhuvaneshwarinagara 20th R Cross		1X4	220.00	0.60		528.00		
	For Culverts		6	6.20	0.60		22.32		
	For Sides		6X2	6.20	0.23		17.11		
			6X2	1.65	0.23		4.55		
							972.79	**309.52**	**301097.00**
	Basic Rate	**292.00**							
	Area Weightage @ 6%	17.52							
	Total	**309.52**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2018-19	**cum**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For RCC Drain Vent		1	167.00	0.90	0.15	22.55		
	For RCC Drain Vent		1	220.00	0.90	0.15	29.70		
	For Flaging Course Coaping								
	Cross Roads		2X2	120.00	0.20	0.10	9.60		
	Cross Roads		2X2	120.00	0.20	0.10	9.60		
	Cross Roads		2X2	120.00	0.20	0.10	9.60		
	Cross Roads		2X2	110.00	0.20	0.10	8.80		
	Cross Roads		2X2	113.00	0.20	0.10	9.04		
	Culverts		6X2	6.20	0.50	0.15	5.58		
	Vent Bed		6	6.20	0.90	0.15	5.02		
							109.49	5627.54	**616142.00**
	Basic Rate	5309.00							
	Area Weightage @ 6%	318.54							
	Total	**5627.54**							
11	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1/ PWD SR 2018-19	Sqm							
	Culverts		6X2	6.20		0.50	37.20		
							37.20	223.66	**8320.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	**223.66**							
12	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	**Cum**							
	For New RCC Drains								
	Bottom Concrete		1	167.00	0.90	0.15	22.55		
	Side Walls		1X2	167.00	0.15	0.60	30.06		
	Bottom Concrete		1	220.00	0.90	0.15	29.70		
	Side Walls		1X2	220.00	0.15	0.60	39.60		
	For Cuvlerts		6	6.20	1.80	0.23	15.40		
							137.31	5998.54	**823634.00**
	Basic Rate	5659.00							
	Area Weightage @ 6%	339.54							
	Total	**5998.54**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	**Tonne**							
	0.70Ton/Cum		0.070	137.31			**9.61**	75223.96	**723008.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
14	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 26/ Item No. 5.27/ PWD SR 2018-19	Sqm							
	For Raising Course Drain								
	Cross Road		2X2	120.00		0.20	96.00		
	Cross Road		2X2	120.00		0.20	96.00		
	Cross Road		2X2	120.00		0.20	96.00		
	Cross Road		2X2	110.00		0.20	88.00		
	Cross Road		2X2	113.00		0.20	90.40		
							466.40	966.72	**450878.00**
	Basic Rate	912.00							
	Area Weightage @ 6%	54.72							
	Total	**966.72**							
15	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	Main Road		1	167.00	0.90		150.30		
	Bhuvaneshwarinagara 20th R Cross		2	220.00	0.90		396.00		
	Cross Road		2	120.00	0.90		216.00		
	Cross Road		2	120.00	0.90		216.00		
	Cross Road		2	120.00	0.90		216.00		
	Cross Road		2	110.00	0.90		198.00		
	Cross Road		2	113.00	0.90		203.40		
							1595.70	2100.00	**3350970.00**
	Data Rate	**2100.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ PWD SR 2018-19	Sqm							
	For New Drains								
	Main Road		1	167.00			167.00		
	Bhuvaneshwarinagara 20th R Cross		2	220.00			440.00		
	For Raising Course Drain								
	Cross Road		2	120.00			240.00		
	Cross Road		2	120.00			240.00		
	Cross Road		2	120.00			240.00		
	Cross Road		2	110.00			220.00		
	Cross Road		2	113.00			226.00		
							1773.00		
				I e 1767/0.45			3940.00		
							3940.00	432.48	**1703971.00**
	Basic Rate	408.00							
	Area Weightage @ 6%	24.48							
	Total	**432.48**							
17	KSRB 15-17.5: Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 120/ Item No. 15.59 / PWD SR 2018-19	**Sqm**							
	For New Drains								
	Main Road		1	167.00		0.30	50.10		
	Bhuvaneshwarinagara 20th R Cross		2	220.00		0.30	132.00		
	For Raising Course Drain								
	Cross Road		2	120.00		0.30	72.00		
	Cross Road		2	120.00		0.30	72.00		
	Cross Road		2	120.00		0.30	72.00		
	Cross Road		2	110.00		0.30	66.00		
	Cross Road		2	113.00		0.30	67.80		
							531.90	**53.00**	**28191.00**
	Basic Rate	50.00							
	Area Weightage @ 6%	3.00							
	Total	**53.00**							
18	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with **enamel paint** to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 121/ Item No. 15.60.1 / PWD SR 2018-19								
	For New Drains								
	Main Road		1	167.00		0.30	50.10		
	Bhuvaneshwarinagara 20th R Cross		2	220.00		0.30	132.00		
	For Raising Course Drain								
	Cross Road		2	120.00		0.30	72.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
21	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification 30-45mm compacted thicikness (GradingII) With 6% bitumen 80/100, No. 161/ Item No. 21.22.1/ PWD SR 2018-19	Cum							
	Bhuvaneshwarinagara main Road		1	167.00	6.00	0.040	40.08		
	Bhuvaneshwarinagara 20th R Cross		1	220.00	6.00	0.040	52.80		
	Main Road		1	288.00	6.00	0.040	69.12		
	Cross Roads		1	120.00	6.00	0.040	28.80		
	Cross Roads		1	120.00	6.00	0.040	28.80		
	Cross Roads		1	120.00	6.00	0.040	28.80		
	Cross Roads		1	110.00	6.00	0.040	26.40		
	Cross Roads		1	113.00	6.00	0.040	27.12		
							301.92	8869.02	**2677735.00**
	Basic Rate	8367.00							
	Area Weightage @ 6%	502.02							
	Total	**8869.02**							
22	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 1182., I.No.24.15 of PWD S.R 2018-19	Sqm							
	Bhuvaneshwarinagara main Road		1	167.00		0.10	16.70		
	Bhuvaneshwarinagara 20th R Cross		1	220.00		0.10	22.00		
	Main Road		1	288.00		0.10	28.80		
	Cross Roads		1	120.00		0.10	12.00		
	Cross Roads		1	120.00		0.10	12.00		
	Cross Roads		1	120.00		0.10	12.00		
	Cross Roads		1	110.00		0.10	11.00		
	Cross Roads		1	113.00		0.10	11.30		
							125.80	454.74	**57206.00**
	Basic Rate	429.00							
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
23	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
			Qty. Vide Item No. 1+2				**740.00**		
							740.00	60.42	**44711.00**
	Basic Rate	57.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	3.42							
	Total	60.42							
							Grand Total		17093505.00
24	For 12% Applicable GST								2051221.00
25	For 1% PMC Charges								170935.00
26	KRIDL Charges 3%								512805.00
27	Labour Cess 1%								170935.00
28	Miscesallaneous Charges	L/S							599.00
									20000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06 (Thanisandra)

Assistant Executive Engineer
Byatarayanapura Sub Division

15/02

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

15/02

ADMINISTRATIVE APPROVAL

Accorded For Rs. 200.00 lakhs only

Head of A/c. P-3158

Div. Ref. No. 179/18-19 Date. 15/02/19

AE 15/02

EE(BTP) 15/02

Rs 200.00 lakhs only
P 3158
TS/268/18-19 15.02.2019